CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

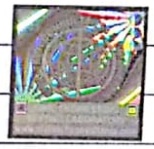
NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-04/610j/CEMENT/2018-19 Date: 04.04.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West) ,** KRIDL, Bangalore.
* Name of Work	:	Improvements RCC drains and roads at Anjaneya temple Surrounding area in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP Bangalore.
* Reference	:	BBMP/EE/DD/Wo/291/2017-18 Dated:17.03.2018
* Sample ID	:	Cement – Sample 2
Sample Received on	:	03.04.2018
Period of Testing	:	03.04.2018 to 04.04.2018



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	470 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	0.75 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Technical Manager

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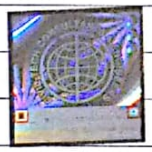
Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-04/610j/SAND-Gradation/2018-19 04.04.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West) ,** KRIDL, Bangalore.
* Name of Work	:	Improvements RCC drains and roads at Anjaneya temple Surrounding area in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP Bangalore.
* Reference	:	BBMP/EE/DD/Wo/291/2017-18 Dated:17.03.2018
* Sample ID	:	Fine Aggregates - Sample 2
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	03.04.2018
Date of Testing	:	04.04.2018



Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.20	90-100	90-100	90-100	95-100
2.36	77.70	60-95	75-100	85-100	95-100
1.18	56.10	30-70	55-90	75-100	90-100
600 Micron	36.10	15-34	35-59	60-79	80-100
300 Micron	18.10	5-20	8-30	12-40	15-50
150 Micron	3.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.:CTCE/BBMP/KRIDL/W.No.13/CSR-04/610j/AGG/GR/2018-19 04.04.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West) ,** KRIDL, Bangalore.
* Name of Work	:	Improvements RCC drains and roads at Anjaneya temple Surrounding area in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP Bangalore.
* Reference	:	BBMP/EE/DD/Wo/291/2017-18 Dated:17.03.2018
* Sample ID	:	Coarse Aggregates (40mm) - Sample 2
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	03.04.2018
Date of Testing	:	04.04.2018

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.90	95-100	85-100
20	40.90	30-70	0-20
10	13.78	10-35	0-5
4.75	4.78	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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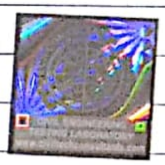
Job No.: CTCE/BBMP/KRIDL/W.No.13/Steel/2018-19 06.04.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West) ,** KRIDL, Bangalore
* Name of work	:	Improvements RCC drains and roads at Anjaneya temple Surrounding area in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP Bangalore.
* Reference	:	BBMP/EE/DD/Wo/291/2017-18 Dated:17.03.2018
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	06.04.2018



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	516	557	13.1	O.K	O.K

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Basaveshwaranagar, Bangalore-560 079.

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Job No.: CTCE/BBMP/KRIDL/W.No.13/Steel/2018-19 06.04.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West) ,** KRIDL, Bangalore
* Name of work	:	Improvements RCC drains and roads at Anjaneya temple Surrounding area in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP Bangalore.
* Reference	:	BBMP/EE/DD/Wo/291/2017-18 Dated:17.03.2018
* Samples ID	:	10mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	06.04.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	518	559	13.2	O.K	O.K

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ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ಬಸ್ಸ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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